

**DOE READING ROOM
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T070495

1. Location of Reading Room: Idaho Operations Public Reading Room 1776 Science Center Dr. University Place Idaho Falls, ID 83403		2. Expected Release Date: June 5, 1995																
3. Document Type: <table border="0"><tr><td><input type="checkbox"/> Letter</td><td>a. If letter or memo:</td></tr><tr><td><input checked="" type="checkbox"/> Memorandum</td><td>To: J. X. Combo, Chief Counsel, Idaho</td></tr><tr><td><input type="checkbox"/> Report</td><td>Operations Office</td></tr><tr><td><input type="checkbox"/> Publication</td><td>From: John R. Horan, Director Health and Safety</td></tr><tr><td><input type="checkbox"/> Other (Specify)</td><td>Division, IDO</td></tr><tr><td></td><td>Subject: SNAPTRAN EFFECT ON ON-SITE GRAZING</td></tr></table> <table border="0"><tr><td></td><td>b. If report:</td></tr><tr><td></td><td>Title:</td></tr></table>			<input type="checkbox"/> Letter	a. If letter or memo:	<input checked="" type="checkbox"/> Memorandum	To: J. X. Combo, Chief Counsel, Idaho	<input type="checkbox"/> Report	Operations Office	<input type="checkbox"/> Publication	From: John R. Horan, Director Health and Safety	<input type="checkbox"/> Other (Specify)	Division, IDO		Subject: SNAPTRAN EFFECT ON ON-SITE GRAZING		b. If report:		Title:
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4. Document Date: Oct. 4, 1963	c. If publication: Name: Volume: Issue:																	
5. Summary (2-3 lines indicating the major subject(s) of the document): Provides evaluation of maximum dose an individual could receive if downwind of Initial Engine Test (IET) building during the SNAPTRAN. Calculated doses were well within established limits.																		
6. Name and telephone number of person completing form: Don C. Bradley (208) 525-0203	7. Organization: Lockheed Idaho Technologies Co.	8. Date: May 5, 1995																

☐ Check here if a copy of the document is being sent to Headquarters.

HUMAN RADIATION EXPERIMENTS

RECORDS PROVENANCE FORM

REPOSITORY NAME	INEL
COLLECTION NAME	SYSTEM FOR NUCLEAR AUXILIARY POWER TRANSIENT (SNAPTRAN)
BOX NUMBER	INEL BOX NO. 22305 FRC AGENCY BOX NO. 30 FRC NO. 150673 ACCESSION NO. 430 78 0073
ADDITIONAL LOCATION INFORMATION	THE BOX IS STORED AT THE FEDERAL RECORDS CENTER (FRC) IN SEATTLE, WA. INEL RECORD STORAGE RECEIPT NUMBER IS 2506 FOLDER: SNAPTRAN 1963
FILE TITLE	SNAPTRAN EFFECT ON ON-SITE GRAZING
TOTAL PAGES	
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HEI FORM DOCUMENT NO.: T070035

DOCUMENT NO.: T070495

DOCUMENT TITLE: SNAPTRAN EFFECT ON ON-SITE GRAZING

CROSS REFERENCES:

ITEMS OF INTEREST:

OCT 4 1963

J. X. Combo, Chief Counsel
Idaho Operations Office

John R. Horan, Director
Health and Safety Division, IDO

SNAPTRAN EFFECT ON ON-SITE GRAZING

RSHP:WG

Reference our past conversations on the above subject.

A review has been made of the potential hazards to which people would be exposed while trailing or grazing animals downwind of the IET during the SNAPTRAN.

To date we have been unable to get a firm estimate from BLM of how many herds could be in the on-site grazing area at the time of the test. Although it appears very unlikely that there will be anyone left in the area that late in the fall (last part of November), we cannot be certain of this. Therefore, we have evaluated the maximum doses which these people could receive, based upon calculations presented in the SNAPTRAN Safety Analysis Report. The highest dose is that to the thyroid resulting from the inhalation of radioiodine. This dose at four miles, the nearest point to IET on the grazing boundary, would be about 100 mrem. This would be one fifth of the established annual Radiation Protection Guide value. This calculation assumes a release of 50 per cent of all of the radioiodine in the reactor and is considered very conservative. The SPERT I destructive test last year released less than 1 per cent of the iodine inventory. The maximum wholebody exposure resulting from cloud immersion and deposited activity would be about 30 mrem. Again this is based on conservative assumptions on the radioactivity release fractions. Therefore, inasmuch as the radiation hazard to people in the on-site grazing area resulting from the SNAPTRAN will be negligible, we see no reason to restrict access to this area.

Another reason against closing this area is the fact that one part of the grazing area over which the cloud is expected to pass is only about one mile wide. It would be difficult to explain to the public why it is necessary to restrict access to this area without there being a significant hazard for people living off-site immediately adjacent to the area.

REPOSITORY INEL

COLLECTION SNAPTRAN

BOX NO. 22305 FRC AGENCY BOX NO. 30 FRC NO. 150673
ACC. NO. 430780073 Folder: SNAPTRAN 1963
FOLDER SNAPTRAN EFFECT ON ON-SITE GRAZING

Form AEC-818 (Rev. 9-63)				U. S. GOVERNMENT PRINTING OFFICE 16-62761-3	
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SURNAME	McGILL: Jdb	HS	HS		
OFFICE	HSHP				

As stated
Enclosure:

Attached is a map showing the NWS land which is open to grazing. The approximate area of influence for SWAPPAH has also been indicated. Please call me if you have any questions on the map or our decision to leave the area open to grazing during the first SWAPPAH. Prior to January 1, 1964, we will evaluate the necessity for withdrawing some of the grazing area next year.

J. X. Combo

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OCT 4 1963